

# Hands-On Exercises for Subversion

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All exercises can be solved using either the *svn* command line tool or the *svnX* or *TortoiseSVN* GUI.

## 1. **Creating a Repository:**

Log on to the RWTH SVN server and create a new project called *svn\_hands\_on*. Find the Checkout URL for this project.

## 2. **Checkout of the Project:**

Checkout a working copy of the project you just created to your computer.

## 3. **Adding a file:**

Generate a file *helper\_prog.f90* in your working copy and add it to subversion. Assume this file contains an important little helper tool for your work. The first line of the file should be: *this is just a test*.

## 4. **Commit a file:**

Commit *helper\_prog.f90*. Remember to use a helpful commit message.

## 5. **Move a file:**

Now assume you want to integrate your helper tool *helper\_prog.f90* into your main program. Therefore you transformed it into a module. Change its name to *helper\_module.f90* by moving it. Remember for *svnX*: Moving has to be done in the Repository view.

## 6. **A second working copy:**

Checkout a second working copy to your computer.

## 7. **Handling conflicts:**

Alter the first line of the file *helper\_module.f90* in your second working copy so that the initial 't' is capitalized to 'T'. Commit the change. In your first working copy do not update and alter its version of *helper\_module.f90* so that the '.' now reads '!'. Try to commit your change. Resolve the conflict that arose.

**8. Revert a change:**

Now update both working copies. Delete the file *helper\_module.f90* using *Finder* or `rm helper_module.f90`. Revert the file and save several days of work.

**9. Delete a file:**

You found out that *helper\_module.f90* is completely useless. Delete the file.